To: Jim McGovern; Cintichem

From: Frank Getchell, Dave Terry ; LBG

Date: May 11, 1998

Re: Monitor Well 2S as Possible Supply Well

70-687

As per our recent discussion, LBG has reviewed relevant New York State regulations and guidelines relative to evaluating a scenario in which Monitor Well 2S at the Cintichem facility, or a similar well installed nearby, could be used as a residential supply well. The only relevant guidelines for a single family home are those presented in a New York State Department Of Health (NYSDOH) document entitled "Rural Water Supply" dated 1966, which is also presented as Appendix 5-B of 10 NYCRR 10 HEALTH (A) and Part 75B.

Based on our review of this document, it appears that Monitor Well 2S would not qualify as an appropriately designed supply well in an overburden or "sand and gravel" water-bearing formation due to one or both of the following requirements:

1) Minimum casing length of 20 feet;

2) Casing length must extend at least 5 feet below the pumping level.

According to our files, the casing of Monitor Well 2S is about 27 feet deep. The static water level in the well is about 26 feet below grade. In order to install a legal overburden water supply well at this location, the well casing would need to extend to about 31 feet below grade (per requirement 2, above). However, this would put the intake zone in the bedrock, not in the overburden. As a result, not only would Monitor Well MW-2S not be acceptable for use as residential water supply well in New York, an acceptable well could not be completed in the overburden at this location.

At a more fundament level, the NYSDOH recommends a minimum well yield of 5 gallons per minute (gpm) for a residential well. Orange County requires 5 gpm for individual wells in developments of five or more residences. Our data indicate that Monitor Well 2S cannot sustain a yield of even 1 gpm, and the well "goes dry" after about 2.5 gallons are produced. As a result this well would clearly not be acceptable for use as a residential water supply well in New York.

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We hope that this information is of use. Please call if you need additional information or have any questions.

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